Who am I?
What was I doing before coming to UC Merced?

Roger Bales
- Bloomington (Indiana) high school
- B.S. Civil/Environmental engineering, Purdue University
- M.S. Civil/Environmental engineering, UC Berkeley
- worked 5 years as environmental engineer doing water quality planning & problem solving in California
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- Ph.D. Environmental Engineering Science, California Institute of Technology
- Professor of Hydrology & Water Resources, University of Arizona (Tucson)
Why did I join the UC Merced team

Professional:
- Opportunity to use my experience to start educational & research programs that will serve the region
- Research in the Sierra Nevada
Why did I join the UC Merced team

Professional:
- Opportunity to use my experience to start educational & research programs that will serve the region
- Research in the Sierra Nevada

Personal:
- My family & I like the area
Environmental Engineering B.S.

Environmental engineering
- environmental quality
- environmental hydrology
- environmental sustainability

Environmental engineering is distinguished from other "environmental" fields through focus on:
- problem solving
- design & implementation of technological or management systems

UCM also offers Earth system science
What research do my student & I do?

One way that the UC system is distinguished from Cal State or community colleges by its research mission.

This creates opportunities for undergraduate learning in more individual, tutorial & problem solving situations.
Scientific advances depend heavily on measurements
Snow cover & climate change

Snowmen added to endangered species list
Snow research

Undergraduate Ryan Dewitt measuring snow at Gin Flat
San Joaquin valley & Sierra Nevada as natural laboratory for education & research
Ice coring in Greenland